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FORD EDUCATIONAL WEEKLY 140 - *One Reel*

THE STORY OF STEEL
THE WORLD'S GREATEST INDUSTRY

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2. THE story of steel is a romance. -- A tale woven among the experiences of exceptional Americans whose industry and ingenuity have made America the leading steel producing nation of the world.
3. And in passing we must not overlook the magnificent loyalty and support rendered the Nation by the big steel Corporations during the period of the war. They produced the materials from which Allied inventiveness constructed their weapons for victory.
4. While Iron ore is mined extensively throughout the United States - - - 84 $\frac{1}{2}$ % comes from the Lake Superior region; whence it is floated down through the lakes to the big steel companies in Ohio and Pennsylvania.
5. Unloading a big Lake Steamer. From the time it leaves the mine until converted into forms for sale, the ore is not touched by the hand of man.
6. A Modern American Blast Furnace equipment with a capacity of 600 tons of pigiron per day.
7. Conveying ore to bins from whence it is carried by skip buckets to top of Blast Furnace.
8. Running Slag (the impurities in the iron boil to the surface and are termed Slag.)
9. Dumping Slag, a miniature Vesuvius with all the spectacular effects of a Fourth of July celebration .
10. Tapping the Blast Furnace. A small ball of clay is all that holds the seething mass of molten metal in check.
11. The charge of the "Mud Gun!" An instrument used to stop the flow of metal by filling the opening in the furnace with mud (clay).
12. Making Pigiron with the Pig Machine.

13. Charging an "Open Hearth" furnace with 80 tons of pigiron and scrap. "The hearth is open and exposed to the action of the flame.")
14. Tapping an "Open Hearth" furnace and pouring ingots.
15. Dumping Slag.
16. Trainloading a cargo of ingots from "Open Hearth" furnace to soaking pits where the ingots develop an even temperature until ready for the rolling mill.
17. Immense Steel fingers, like the hand of a mighty giant, remove the ingots to conveyors which carry them to the Blooming Mill.
18. Reducing an ingot to a thin steel rod. After many journeys through powerful sets of rollers, the rod is reduced to the proper size.
19. As the rod grows smaller, it becomes snakelike and treacherous and is likewise more difficult to handle.
20. How would you like to tame this coiling monster of red hot metal?

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